

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

|  |                           |  |  |                          |                      |          |
|--|---------------------------|--|--|--------------------------|----------------------|----------|
| Customer :   |                           |  |  |                          |                      |          |
| Product line   |                           | : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase |  | Product code : 15524329  |                      |          |
| Frame  | : 215LP                   |  | Locked rotor time  | : 270s (cold) 150s (hot) |                      |          |
| Output   | : 10 HP (7.5 kW)          |  | Temperature rise   | : 80 K                   |                      |          |
| Poles  | : 2                       |  | Duty cycle   | : Cont.(S1)              |                      |          |
| Frequency  | : 60 Hz                   |  | Ambient temperature  | : -20°C to +40°C         |                      |          |
| Rated voltage  | : 208-230/460 V           |  | Altitude   | : 1000 m.a.s.l.          |                      |          |
| Rated current  | : 25.9-23.5/11.7 A        |  | Protection degree  | : IP55                   |                      |          |
| L. R. Amperes  | : 179-162/80.7 A          |  | Cooling method   | : IC411 - TEFC           |                      |          |
| LRC  | : 6.9x(Code H)            |  | Mounting   | : W-6                    |                      |          |
| No load current  | : 6.50-7.60/3.80 A        |  | Rotation <sup>1</sup>  | : Both (CW and CCW)      |                      |          |
| Rated speed  | : 3525 rpm                |  | Noise level <sup>2</sup>   | : 72.0 dB(A)             |                      |          |
| Slip   | : 2.08 %                  |  | Starting method  | : Direct On Line         |                      |          |
| Rated torque   | : 2.06 kgfm               |  | Approx. weight <sup>3</sup>  | : 110 kg                 |                      |          |
| Locked rotor torque  | : 210 %                   |  |  |                          |                      |          |
| Breakdown torque   | : 280 %                   |  |  |                          |                      |          |
| Insulation class   | : F                       |  |  |                          |                      |          |
| Service factor   | : 1.15                    |  |  |                          |                      |          |
| Moment of inertia (J)  | : 0.0232 kgm <sup>2</sup> |  |  |                          |                      |          |
| Design   | : B                       |  |  |                          |                      |          |
| Output   | 25%                       | 50%  | 75%  | 100%                     | Foundation loads     |          |
| Efficiency (%)   | 0.000                     | 88.5   | 90.2   | 90.2                     | Max. traction        |          |
| Power Factor   | 0.00                      | 0.79   | 0.87   | 0.89                     | Max. compression     |          |
|  |                           |  | <u>Drive end</u>   |                          | <u>Non drive end</u> |          |
| Bearing type   | :                         | 6309   |  |                          | 7306BECB             |          |
| Sealing  | :                         | Oil Seal   |  |                          | Lip Seal             |          |
| Lubrication interval   | :                         | 7898 h   |  |                          | 8437 h               |          |
| Lubricant amount   | :                         | 13 g   |  |                          | 7 g                  |          |
| Lubricant type   | :                         | Mobil Polyrex EM   |  |                          |                      |          |
| Notes  |                           |  |  |                          |                      |          |
| This revision replaces and cancel the previous one, which must be eliminated.<br>(1) Looking the motor from the shaft end.<br>(2) Measured at 1m and with tolerance of +3dB(A).<br>(3) Approximate weight subject to changes after manufacturing process.<br>(4) At 100% of full load. |                           |  | These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1. |                          |                      |          |
| Rev.   | Changes Summary           |  |  | Performed                | Checked              | Date     |
| Performed by   |                           |  |  |                          |                      |          |
| Checked by   |                           |  |  |                          | Page                 | Revision |
| Date   | 30/10/2024                |  |  |                          | 1 / 2                |          |

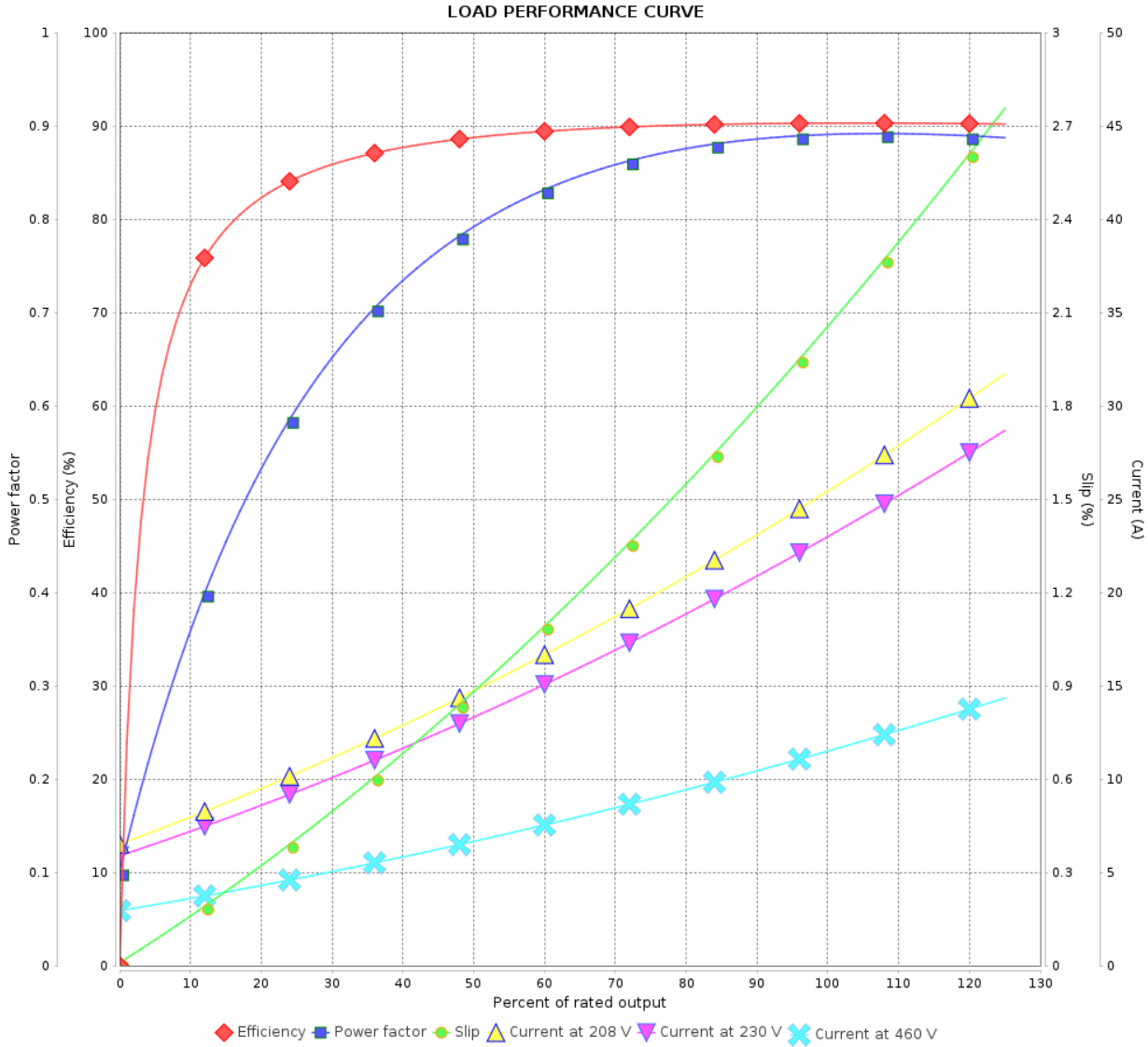
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase      Product code : 15524329



Performance : 208-230/460 V 60 Hz 2P

|                     |                    |                       |                           |
|---------------------|--------------------|-----------------------|---------------------------|
| Rated current       | : 25.9-23.5/11.7 A | Moment of inertia (J) | : 0.0232 kgm <sup>2</sup> |
| LRC                 | : 6.9              | Duty cycle            | : Cont.(S1)               |
| Rated torque        | : 2.06 kgfm        | Insulation class      | : F                       |
| Locked rotor torque | : 210 %            | Service factor        | : 1.15                    |
| Breakdown torque    | : 280 %            | Temperature rise      | : 80 K                    |
| Rated speed         | : 3525 rpm         | Design                | : B                       |

| Rev.         | Changes Summary | Performed | Checked       | Date     |
|--------------|-----------------|-----------|---------------|----------|
|              |                 |           |               |          |
| Performed by |                 |           | Page<br>2 / 2 | Revision |
| Checked by   |                 |           |               |          |
| Date         | 30/10/2024      |           |               |          |

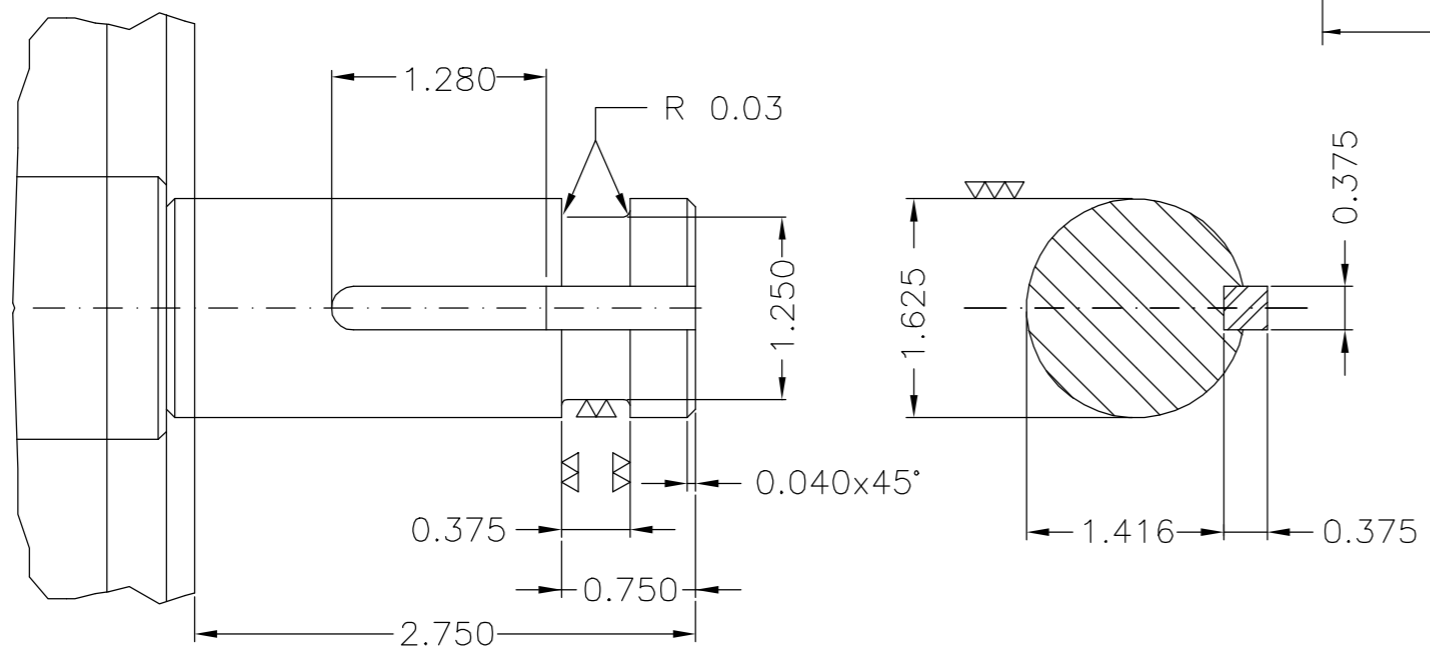
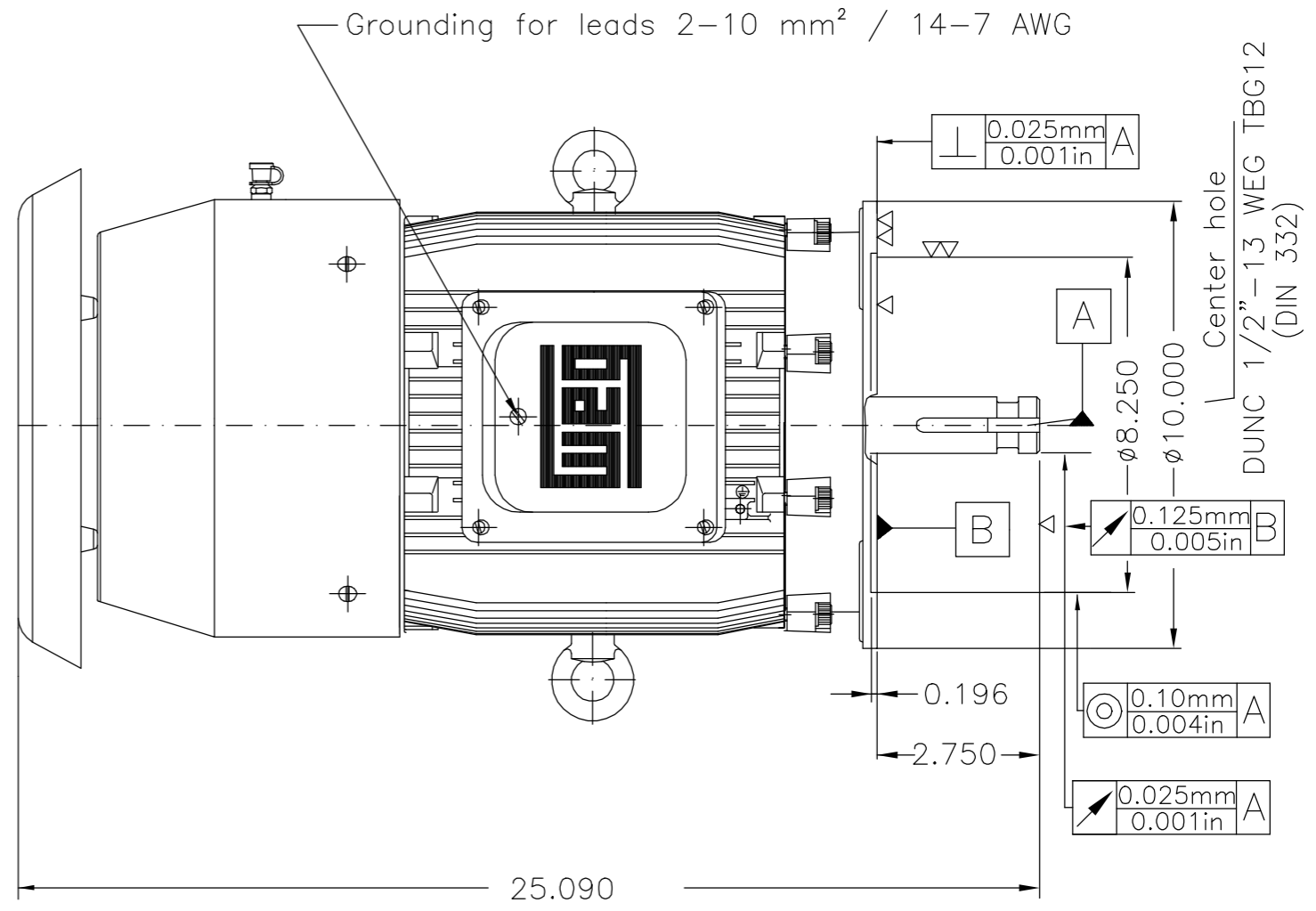
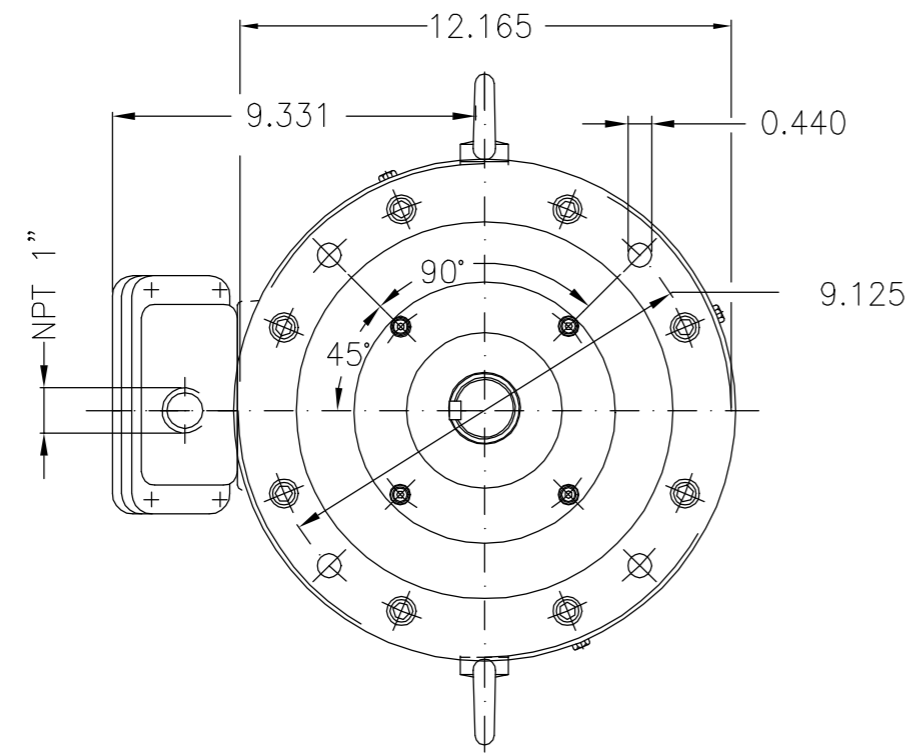
EIXO/SHAFT  
 PADRÃO/STANDARD X  
 OPCIONAL/OPTIONAL  
 ESPECIAL/SPECIAL

Dimensões em polegada  
 Dimensions in inches

**CERTIFIED WEG MOTORES**  
 Certified document.  
 Not subject to changes.

THIS IS AN UPDATED REVISION, THE PREVIOUS ONE MUST BE DISREGARDED.

**ATENÇÃO/ATTENTION**  
 MOTOR DEVE SER LIGADO APENAS NA POSIÇÃO VERTICAL  
 MOTOR MUST BE ENERGIZED ONLY IN THE VERTICAL POSITION



Placa de identificação com marcação especial / Nameplate with special marking  
 Cor RAL 5009 / Color RAL 5009  
 Plano de pintura 207A / Painting plan 207A  
 Forma construtiva NEMA W-6 / Mounting NEMA W-6  
 Forma construtiva V1 / Mounting V1

**V.J. PAMENSKY CANADA INC.**

|              |                        |  |                |                     |            |          |      |     |
|--------------|------------------------|--|----------------|---------------------|------------|----------|------|-----|
| 500002148791 | ALT CONFORME 418229042 | CLAUDEMIRR                             | JACKSONDC      | JACKSONDC           | 14.06.2022 | 04       |      |     |
| 500001781587 | 417359503              | FRANCINES                              | RICLAV         | RICLAV              | 24.06.2020 | 03       |      |     |
| ECM          | LOC                    | SUMMARY OF MODIFICATIONS               |                | EXECUTED            | CHECKED    | RELEASED | DATE | VER |
| EXECUTED     | DANIELAW               | THREE-PHASE IN LINE EXTRA THRUST MOTOR |                | 10006137324         |            |          |      |     |
| CHECKED      | RPAULI                 | FRAME 215LP IP55 TEFC                  |                | 000   04            |            |          |      |     |
| RELEASED     | RPAULI                 |  |                |                     |            |          |      |     |
| REL DT       | 23.10.2018             | WMO                                    | Jaragua do Sul | Product Engineering | SHEET      | 1 / 1    |      |     |

10 HP 02 Poles 60Hz  
 7.5 HP 02 Poles 60Hz 415234508/0